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R/003/60/011/007/001/003 A125/A026

On the Electrolytic Production of Metallic Titanium

sodium chloride molten in a protective atmosphere of argon (KgTiF6 - NaCl). The laboratory apparatus consists of: a) the argon purifying installation, and b) the electrolysis cell. The argon purifying installation is used for the removal of naxious impurities, i.e., oxygen, nitrogen and water. The electrolysis cell consists of the cell itself and the heating furnace. The operation temperature ranged from 700°C to 820°C, with 760°C as the most efficient temperature. The current intensity varied from 10 to 30 amp, and the current density from 120 to 750 amp/dm2. The voltage on the plugs of the cell was 5 - 6 v. Table 1 presents the values of the intensity and voltage in function of the time. The electrolysis procedure lasted 1 - 2 h and the cooling procedure 2 h. The deposited titanium was introduced into distilled water of 60°C maximum, where the salt content of the deposed metal was dissolved. The drying was performed in a vacuum at a temperature lower than 60°C. Coal, oxygen and iron are impurities which are present in larger quantities. Reference is made to the source of these impurities and to some methods of reducing them. The "Debyegram" (Fig. 8) performed on a laboratory sample shows that this sample has parameters which are very close to the parameters of a product with a purity of 99.9%, indicated in technical literature. Table 3 presents some values computed on the basis of the "Debyegram" and compared with some values of usual titanium and 99.9% pure tita-

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On the Electrolytic Production of Metallic Titanium

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nium, respectively. The current efficiency during the electrolysis varied between 45 and 75%, and the power consumption was around 26 kwh/kg of titanium. There are 4 figures, 5 photos, 1 set of photos, 3 tables and 12 references: 5 Soviet, 1 Rumanian, 4 English, 1 German and 1 Hungarian.

X

Card 3/3

AUTHORS:

85172

R/003/60/011/009/001/002 A125/A026

18.0010 als 1273, 1087

Craiu, Viorica; Anghel, Paula; Calusaru, A.; - Engineers

..... Electrolytic Production of Zirconium Metal TITLE:

PERIODICAL: Revista de Chimie, 1960, Vol. 11, No. 9, pp. 509 - 514

Subject article deals with the method of electrolysis for the production of pure zirconium metal. Its production was studied by Troost; Marden and Rich; Driggs and Lilliendahl; Kroll and assistants; Steinberg and assistants (Ref. 2); Creamer, Chambers and White; Raynes, Thelleman, Steinberg and Wainer (Ref. 3); Anchieux and Dauphin; and Chauvin, Coriou and Huré (Ref. 4). In a previous work (Ref. 5) the authors published some experimental data on the electrolytic deposition of titanium metal. The data presented in subject article were obtained in the same apparatus (Figs. 1 and 2). The experimental procedure is based on the electrolysis of potassium fluozirconate, dissolved in molten sodium chloride. The authors studied the influence of the following parameters on the efficiency of substance and current: a) current density; b) temperature; c) composition of the electrolyte; d) electrolysis time; e) shape of the cathode; and f) nature of the cathode. a) The current density has a complex influ-

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Electrolytic Production of Zirconium Metal

ence depending on the interval of the current density at which the work is performed, on the dimensions and the shape of the cell and on the dimensions of the cathode. A high current density proved to be advantageous (Table 1). b) Influence of temperature (Table 2): A temperature of 800°C represents a minimum value. By increasing it to 850°C, the deposition procedure is improved. Above this temperature, the variations are smaller. Thus, 850°C are the maximum limit. c) Influence of the composition of the electrolyte (Table 3): Practically, it proved to be advantageous to select a ratio of KeZrF6/NaCl equal to 1/2. d, Influence of the electrolysis time (Table 5): The most advantageous electrolysis time was found to be 2 - 2.5 h. e) Shape of the cathodes (Table 6): Only cylindrical and truncated cone-shaped cathodes were tested, but they proved to be identical in their efficiency. f) Nature of the cathodes: With regard to the current efficiency, the nature of the cathodes has no influence on the procedure, but influences the purity of the product. Steel and graphite cathodes have been excluded. Comparing a "V2A" cathode with a nickel cathode, the iron content of the zirconium produced was by 0.5% higher in case of the "V2A" cathode. Molyndenum cathodes are too expensive. The electrolytic zirconium was analysed spectrum to the cathodes are too expensive. trographically to establish the content of Cr. Cu, Mn, Sn, Al, S1, Fe and Hf. Ni and Ca could not be found. The spectrographical analysis was accomplished

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27001 R/003/61/012/003/002/004

D238/D302

AUTHORS: Niederkorn, I., Engineer, Candidate of Technical

Sciences; Teodorescu, R., Engineer; and Caluşaru, A.,

Engineer, Candidate of Technical Sciences

TITLE: Production of spectrally pure silicon by the dissociation

of silanes

PERIODICAL: Revista de chimie, v. 12, no. 3, 1961, 144-150

TEXT: This study is part of a search for a convenient industrial preparation of ultra pure Si Abstractor's note: See Niederkorn et al, Rev. Chim. 12, 137, 1961 . The method studied consists in preparing SiMg₂ from the elements, reacting SiMg₂ with HCl to form a mixture of silanes, Si $_{\rm n}^{\rm H}_{\rm 2n+2}$, and decomposing the latter on a hot surface, where Si is deposited. Although poor yields averaging 20% were reported, this method is thought to be advantageous for the following reasons: (a)

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Production of spectrally ...

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The obvious case of purifying gases (b) The possibility of using glass, instead of quartz, for a large part of the apparatus (c) The limited number of volatile hydrides (d) the by-product is hydrogen, easy to handle. (e) the high performance of resulting silicon, crystals made of the latter having a resistivity of several thousands of ohms. Specifically, SiMg2 was prepared by heating a mixture of technical Si and Mg powder at 650° C for 10-15 min, in an atmosphere of H₂. The apparatus for the generation and subsequent dissociation of the silane mixture is shown in Fig. 2 and functions as follows: A controlled flow of purified ${\rm H_2}$ forces a suspension of ${\rm SiMg_2}$ in glycerine from the feeding bottle, 2 into a 40 lit. polyethylene container, 3: Here, silanes are generated by adding aqueous HCl flowing through R. . The rate of generation is regulated by a contact manometer, 7, which opens the magnetic valve V whenever this rate increases. The valve causes the level of water in 1 to fall and thus the feed of SiMg2 is cut off. The mixture of silanes and water vapors is freed from volatile hydrides in the heated

27001 R/003/61/012/003/002/004 D238/D302

Production of spectrally...

column, 8 (at 350°C) and then cooled in 9; water is removed in 10 and the last traces of it combine with SiCl, . The resulting silica aerosol is trapped in 12. Boranes are retained by ground SiH in 13 and aerosols - by glass spheres coated with silicon grease, in 14. The dissociation was studied by three methods, namely by deposition on quartz tube, Ta tube, and Ta wire, respectively. The quartz tube, 20, is protected by another quartz tube, 21, and heated by means of the furnace, 19. The Ta tube, made from 0.2 mm. Ta sheet, is protected by means of an opaque quartz tube and heated in the same manner as 19. The apparatus for deposition on the Tarwire, 17 consists of water cooled copper pipes (serving as contacts); of a Ta wire connected to these pipes via Mo plates; and of a perforated quartz fork placed coaxially with the wire. The silanes enter the apparatus through the hollow fork and the Si formed is deposited on the wire. Any Si dust carried with the gases is collected in the cyclones, 22. Experimental results: (1) Generation of silanes. The gas mixture in 3 contained SiH4, -2,1%; Si2H6 1.7%; and Si3H8, 1.3%. The reaction proceeds up to 4 hours after Card 3/6

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Production of spectrally...

the feed of MgSi2 has been cut off. The acid sludge contains a grey residue. (2) Purification of silanes. The cooler was lined with a deposit of SiO₂. Otherwise the purification was satisfactory, (3)
Dissociation. Most of the pertinent data were gathered from the deposition on a quartz tube. Si deposited at 1000 C and over is metallic in appearance, while at lower temp.a grey powder is formed. The authors concluded that it was formed from gas molecules which did not dissociate on the walls and used deposition tubes with smaller diameters in order to increase the radial velocity of the gas. Consequently, the proportion of by-product was reduced from 10% (with a tube of Ø 30 mm) to 1-2% when using a tube of Ø 12 mm. The yields varied from 10 to 22%. The product was spectrally pure and contained less than $10^{-4}\%$ of Ca, Cu etc. and approx. 10"7% of B. The deposition on a Ta tube yielded a product contaminated with Ta. Two runs with Ta wire conducted, at 900°C and 1000°C respectively. There are 4 figures, 1 table and 14 references: 7 Sovietbloc and 7 non-Soviet-bloc. The references to the English-language publications read as follows: Thorpe's Dictionary of Applied Chemistry, vol. X Longmans, Londra 1952; Kirk - Othmer, Encyclopedia of Chemical

Card 4/6

27001 R/003/61/012/003/002/004 D238/D302

Production of spectrally...

Technology, vol. XII, Interscience, New York, 1954; Bell Telephone Manufg. Co. - Brev. Belg. 565604/12.IX.1958; International Standard Electric

Legend to Fig. 2. Laboratory installation for the production of silicon from silanes. 1) automatic manometer, 2) feeding bottle, 3) silane generator, 4) beaker with water, 5) bottle, 6) liquid valve, 7) contact manometer, 8) heated column, 9) cooler, 10) CaCl₂ column, 11) diato-

maceous earth column, 12) container for SiCl₄, 13) SiH column, 14) con-

tainer with greased glass spheres, 15) manometer, 16) flowmeter, 17) apparatus for dissociation on Ta wire, 18) manometer, 19) furnace,

20) quartz tube for dissociation, 21) quartz tube for protection, 22) cyclones, 23) to magnetic valve V, T - thermometer with relay, V magnetic valve, R - R - stopcocks

Card 5/6

(For Fig. 2 see next card)

CALUSARU, A.; RIPEANU, S.; BENES, L.

On the structure and magnetic characteristics of the electrolytic cobalt strata used for neutron polarization. Studii cerc fiz 14 no.3:239-247 163.

1. Institutul de fizica atomica Bucuresti.

CURTHANU, G., dr., COSTA, A., dr.; VIAD, I., dr.; FARILLIN, V.V., dr., GALUSIOU, I., dr.

Abatomoclinical aspects of oncological pathology to children. (Anatomoclinical study of 157 verified cases). Sedintria (Bueur.) To no.52/17-445 (D.) 164

l. Lucrare efectuata in Spilalul de copii, Oradea (directore dr. L. Kende) si Prosecciora Spitalului clinic de adulti nr. 2. Chaj (directore prof. 1. Maresan).

CALUSINSKI, Bogdan, mgr.; GALLAR, Jan, mgr. inz.; SKORUPA, Andrzej, mgr. inz.

Testing pressure welds in steel constructions with the ZSK-2 magnetic flaw detector. Przegl. spaw 15 no.10:228-229 0'63

1. Akademia Gorniczo-Hutnicza, Krakow.

CALUSINSKI, Bogdan, mgr.; GALLAR, Jan, mgr. inz.; SKORUPA, Andrzej, mgr inz.

M netic method of testing butt welds. Przegl spaw 16 no.7/8: 189-190 Jl-Ag*64

1. Technical University, Czestochowa (for Calusinski). 2. School of Mining and Metallurgy, Krakow (for Callar and Skorupa).

L 61967-65 EWP(c)/EWP(v)/T/EWP(k)/EWP(1)/ETC(m) Pf-4 WW ACCESSION NR: AT5015383 PO/2531/64/000/005/0145/0150

AUTHOR: Calusinski, Bogdan; Gallar, Jan

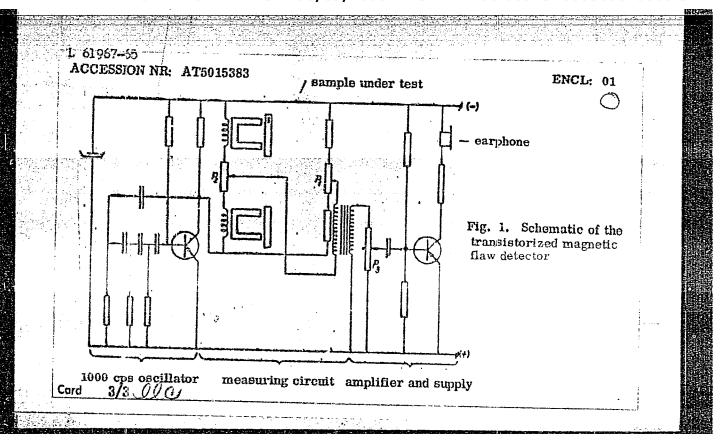
TITLE: Investigations on a prototype of the ZSK-1 transistorized magnetic flaw detector

SOURCE: Czestochowa. Politechnika. Zeszyty naukowe, no. 24, 1964. Nauki podstawowe, no. 5, 145-150

TOPIC TAGS: magnetic defectoscope, flaw detection, transistorized flaw detector

ABSTRACT: In the introductory section, the paper briefly discusses the present-day achieven ents in the testing of magnetic materials using magnetic flaw detectors. The inference method and the bridge method of magnetic flaw detection are insertance. The inference method and the bridge method of magnetic flaw detection are insertance. The inference of the bridge method is thorough a section of shown in Fig. 1 of the fine losure. A one-stage amplifier as a formal and the high sensitivity of the detector run cathedral in the action of a flaw and the signal intensity provides as the following extent. The mathod of a flaw, and the signal intensity provides as the following extent. The mathod is measuring the instrument sensitivity in the cathedral intensity can detect, with sufficient certainty, flaws 1 mm in diameter at a depth of the Cord.

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	surface. Various possible applications of this instrument are given. Orig. art. has: 3 figures.	
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ENT(d)/EMP(c)/T/EMP(x)/EMP(k)/EMP(1) ACCESSION NR: AP5006980 P/0034/65/000/002/0082/0083 AUTHOR: Calusinski. B. (Master); Golecki, J. (Docent, Doctor, Engineer); Callar, J. (Master engineer) TITLE: The transistorized magnetic flaw detector ZSK-2 SOURCE: Pomiary, automatyka, kontrola, no. 2, 1965, 82-83 TOPIC TAGS: Flaw detector, magnetic flaw detector, translatorized flaw detector. internal flaw / ZSK-2 flaw detector il ABSTRACT: The paper discusses the methods of magnetic flaw detection used so far from the standpoint of detecting flaws located far below the surface (observed that excellent rates that there are a methods at appearing an higher deposit on mm with the exception of the expensive x-ray methods. The paper describes in detail and discusses the principle of operation and the construction of arms in the tecting deep lying flavor (Folish Patent No. 100609). Fig. 1 of the Fo school dir of the measure person of the distributed bigof the play delector. The transplants of the congrator of similarity and the oscillation amplitude is about 3 volts. The voltage smallthan the traselective amplifier is 1500. A procedure for using this instrument, who Cord 1/42

ACCESSION NR: AP5006980

Orig. art. has: 3 figures.

ASSOCIATION: Politechnika Czestochowska (Czestochowa Polytechnic Irodak K. Galler Abadenia Po

CALUSITA, M.; DUMA, M.; CRETESCU, A.

Televoltmeter and teleamperameter for a physical curcuit. p. 230

AUTOMATICA SI ELECTRONICA (Asociatia Stinifica a Inginerilor si techicienilor din Rominia)
Vol. 2, no. 5, Sept/Oct. 1958
Bucuresti, Rumania

Monthly list of European Accession Index (EEAI) LC Vol. 8, No. 11 November 1959 Uncl.

CALUSITA, M.

£6.

Elements for the calculation of electronic continuous-current analogue computers. p. 68

AUTOMATICA SI ELECTRONICA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Rominia) Bucuresti, Rumania. Vol. 3, no. 2, Mar./Apr. 1959

Monthly List of East European Accessions. (EFAI) LC, Vol. 8, no. 9,/1959 Uncl.

HERSCOVICI, Harri, ing.; CALUSITA, Mioara, cercetator, ing.; ROISMAN, Wilhelm, cercetar stagiar, ing.; NICA, Lucian, cercetar stagiar; MARCUT, Iosif, cercetafor

Unified electronopneumatic system for the automatic regulation of industrial processes. Pt.1. Automatica electronica 6 no.1: 4-11 Ja-F 162.

1. Laboratorul de regulatoare automate al Institutului de Cercetari Electrotehnice. 2. Sef Laboratorului de regulatoare automate al Institutului de Cercetari Electrotehnice (for Hersocovici).

CALUSITA, Micara, ing.

Connection of the controller with the output regulator in the regulating circuits of industrial processes. Automatica electronia 7 no.6:275-280 N-D'63.

CALUSITA, Mioara, ing.

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CALUSITA, M.

Electronic regulators for industrial processes. Metrologia apl 11 no. 10:457-466 0 '64.

CALUSITA, H.

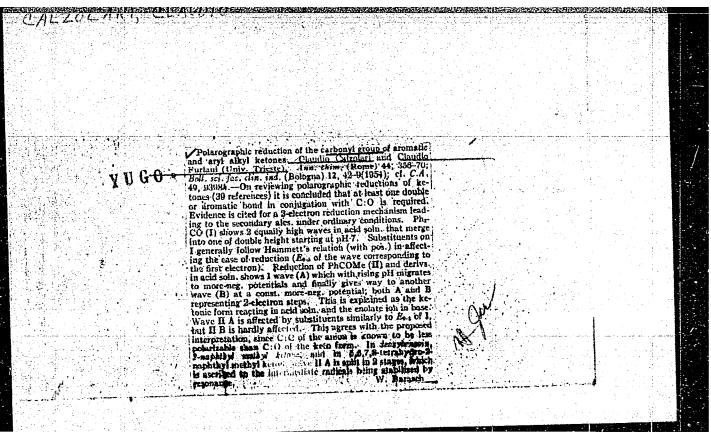
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CALUSITA, M., ing

Electronic governors for industrial processes. Pt.2. Metrologia apl 11 no.12:540-548 D 164.

NICOLAE, Mihail, dr.; BOLOGA, L., dr.; DIACONESCU, C., dr.; CALUTU, I., chim.; KOCH, Maria, felcer

l. Lucrare efectuata in Spitalul unificat Humedoara.
(INDUSTRIAL MEDICINE)
(HEPATITIS, INFECTIOUS)



CAMALESA, N. (Craiova)

Achievements in the improvement of animals in Oltenia. Natura Biologie 15 no. 3: 49-55 My-Je '63.

1. Sef de lucrari.

I. 04023-67 EWP(m)/EWP(t)/ETI LJP(c) FDN/JD/WW ACC NR: AP6025066 SOURCE CODE: 1

SOURCE CODE: RU/0019/66/011/002/0353/0361

AUTHOR: Camarasescu, N.

ORG: Institute of Fluid Mechanics, Academy of the Socialist Republic of Rumania (Institut de Mechanique de Fluides de l'Academie de la Republique Socialiste de Roumanie)

TITLE: Visualization of lateral fluid jets

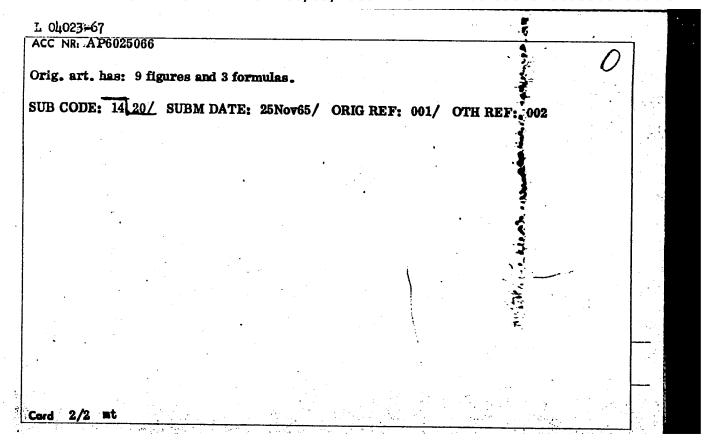
SOURCE: Revue Roumaine des sciences techniques. Seria de mecanique appliquee, v. 11, no. 2, 1966, 353-361

TOPIC TAGS: fluid jet, jet flow, subsonic wind tunnel, motion picture photography

ABSTRACT: A procedure is described which permits visualization of a lateral fluid jet ejected spanwise from the end of a rectangular low-aspect-ratio wing in a subsonic wind tunnel. The technique is based on the diffusion of light by tiny water particles introduced into the jet in the form of vapor. This makes it possible to record the formation and twisting of the jet sheet on a motion picture film and to observe the effect of a variation of the angle of attack of the wing or of a variation of the jet injection rate on the shape of the jet sheet. The photographs obtained reveal an increased circulation about the wing due to the "elongation" of the wing by the jet, and an additional increase in circulation due to the twisting of the fluid portion of the wing.

Card 1/2

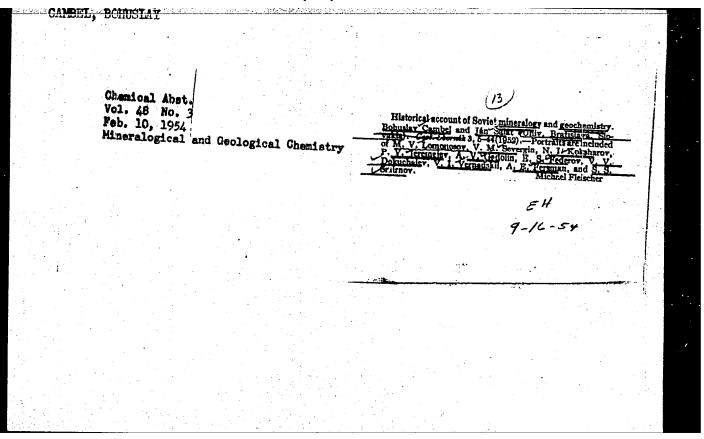
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CAMBA, Djorde Djordevic

On postoperative ileus. Apropos of 2 clinical cases. Srpski arh. celok. lek. 90 no.10:983-987 0 62.

l. I hirurska klinika Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr. Bogdan Kosanovic. (INTESTINAL OBSTRUCTION) (SURGERY, OPERATIVE)



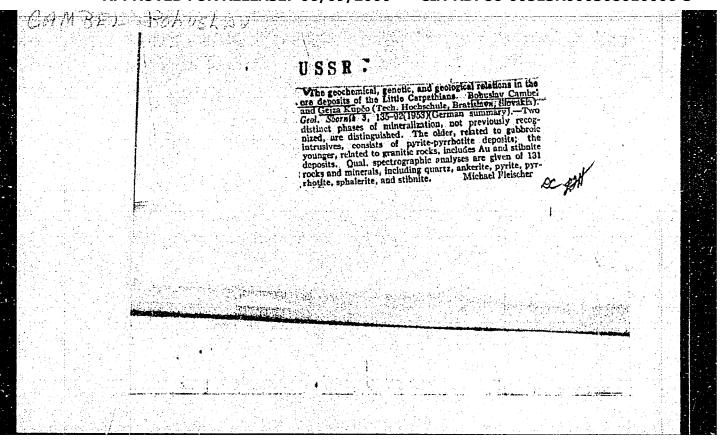
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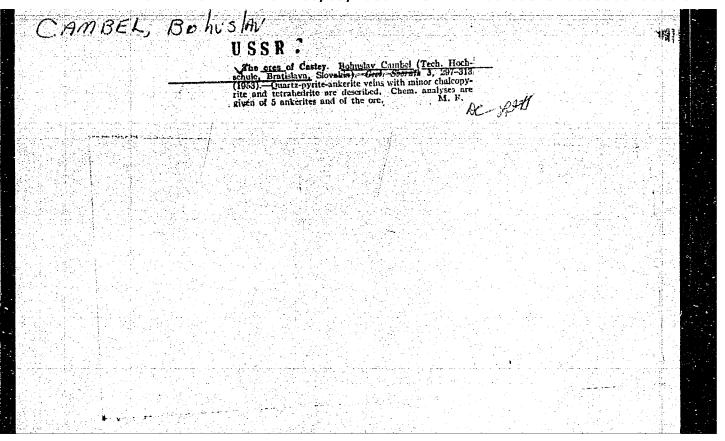
CAMBIEL, B.

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SO: Monthly List of European Accession (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

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CAMBEL, B.

Geologic and petrographic problems concerning the northeastern part of the crystalline masses in t e Little Carpathians. p. 3.

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No. 36, 1954.

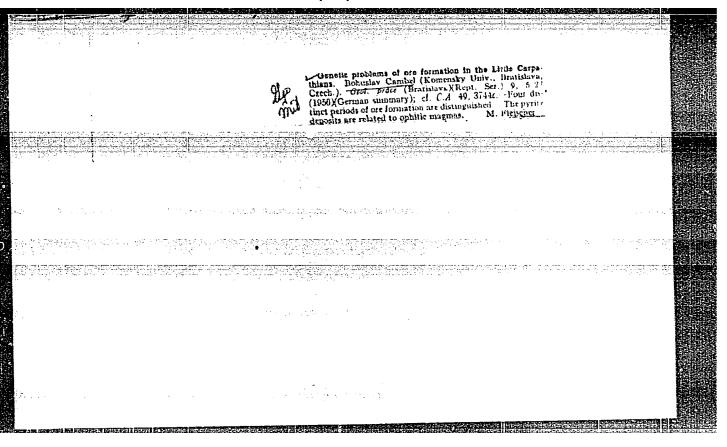
SOURCE: East European Accessions List (EEAL) Library of Congress. Vol. 5. No. 1, January, 1956.

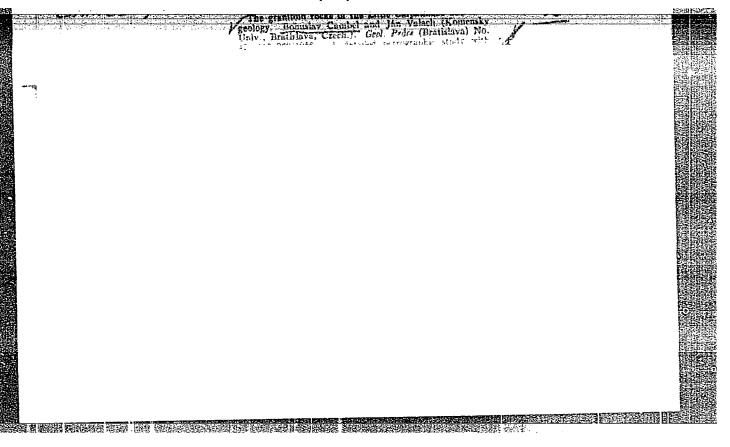
CAMBEL, B.

CAMBEL, B. GRANITOID ROCKS OF TECTONIC ORIGIN IN THE LITTLE CARPATHIAN MOUNTAINS. P.143.

Vol. 7, no. 1/2, 1956, GEOLOGICKY SBORNIK, BRATISLAVA, CZECHOSLOVAKIA.

SO: Monthly List of East European Accessions, (ERAL), LC, Vol. 5, No. 10, Oct. 1956.





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CAMBEL, Bohuslav, prof. dr.

Critical remarks on the opinion about the age of some granitoid rocks of the Low Tatra Mountains. Geol sbor 15 no.1:157-162 '64.

1. Chair of Mineral Raw Materials, Faculty of Natural Sciences, J.A. Comenius University, Bratislava, Jiraskova 12.

:

CASTATONE, P.; CAMBIER, J.; ESCOURTILE, R.; MASSON, M.; VYMAZAL, J.

Apropos of cerebellar atrophy. Cask. neural. 28 no.1:7-13

l. Klinika nemori nervove soustavy lekarske fakulty University v Perizi (prednosta prof. dr. P. Castaigne) a Neurologicka klinika nosta akademik K. Henner).

CAMBIR, 3	POPESSU-BAPAN, M., Dr. CICKTRA, Gr., Dr. IONICA, C., Dr., TUTORIU, C.D., Dr. VIOR, C., Voterinarien, EUU, Eug., Veteri- TUTORIU, C.D., Dr., Voterinarium, JIVOIN, P., Dr., CAMBIR, S., neriam. MARCHA E., Voterinarium, JIVOIN, P., Dr., CAMBIR, S., Dr., MITTIU, L., Dr., and PREDOIU, I., Dr., of the Testeum Veterinary and Biological Productu Research Institute (Ins- titutul de Cercatari Voterinara al Biopreparate "Rasteur", titutul de Cercatari Voterinara al Biopreparate "Rasteur", CREARGA, E., Dr., FAUR, On., Veterinarian, and DIACONU, M.,	
	CREARGA, E., Dr. FAUR. Oh., Veterinarian, of the Scientific Control Laboratory for Bio-Veterinarian, of the Scientific Control Laboratorul legical Products and Drugs for Vaterinary Use (Laboratorul de Control Stiintific al Producelor Biologice of Nedicamentosee de Uz Voterinar), and VOINOV, E., Dr. of the Central Agricultural Research Institute (Institutual Control de Cercetari Agricole). "Improvement of Aminal Tuberculosis Allergical Diagnosis in Rumania by Single and Simultaneous Testa Using Purified Tuberculine (PPD)."	
	Eucharest, Revista de Zootohnie et Medecina Vaterinara, Vol 13, No 1, Jan 1983, pp 50-03.	

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RUMANIA

TUDORIU, C.D., Dr, IONICA, C., Dr, CAMBIR, S., Dr, and PREDOIU, A., Dr, of the "Pasteur" Institute of Veterinary Research and Biological Products (Institutul de Cercetari Veterinare si Biopreparate "Pasteur"), PARASCHIVESCU, M., Veterinarian, SESER-MAN, O., Eng, and PARASCHIVESCU, G. of the Zootechnical Research Institute (Institutul de Cercetari Zootehnice), and ANDREI, M., Dr, of the Constanta Regiune Veterinary Laboratory (Laboratorul Veterinar Regional Constanta).

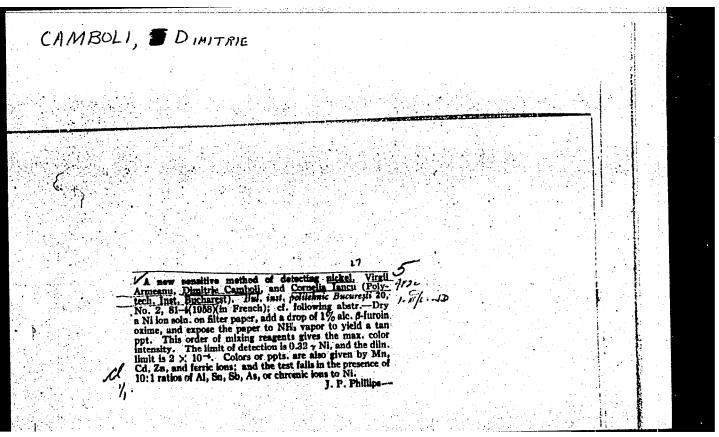
"Aspects of Br. ovis Infection in Reproducing Rams."

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 13, No. 9, Sep 63, pp 74-80.

Abstract [Authors' English summary modified]: One of the main causes of ram infertility is infection with Br. ovis which brings about partial or complete degradation of the sperm. As the most dangerous epizootic moment for transmitting the disease is natural interbreeding, artificial insemination in infected flocks is recommended. The changes in the sperm diagram of infected animals involve the density, mobility and presence of materials other than the sperm, such as epithelial and white cells and Br. ovis. Volume changes are not characteristic, but there may be color changes in the ejaculated sperm.

Includes 1 table and 23 Eastern-European and Russian references.

1/1



E-2

RUMANIA/Analytical Chemistry - Analysis of Inorganic Substances.

: Ref Zhur - Khimiya, No 2, 1959, 4328 Abs Jour

: Armeanu, V., Camboli, D., Ianeu, C.

Inst -- :- Given on card 2/2:
Title : A New Sensitive Method for the Detection of Cobalt.

: Rev Chin, 2, No 4, 218-219 (1958) (in Rumanian with summaries in German, French, English, and Russian) Orig Pub

: The authors have developed a new method for the detection of Co(II) using /3-furoinoxime (I); this reagent appears Abstract

to be more sensitive than & furoinoxime (RZhKhim, 1953, 46376). The best results were obtained with a dropping analytical procedure on filter paper, provided the prescribed order of operations is observed. One drop of the solution to be analyzed is placed on a piece of filter paper, the solution is dried, and one drop of I solution

is added after which the paper is placed over NH3 vapors.

When Co(II) is present, a brown spot will appear.

Card 1/2

RUMANIA/Analytical Chemistry - Analysis of Inorganic Substances. E-2

Abs Jour : Ref Zhur - Khimiya, No 2, 1959, 4328

The detectable minimum of Co is 0.16 %; the limiting dilution is 10-5. The determination of Co is interferred with by the presence of a ten-fold excess of Bi(III) a 20-fold excess of Cr(III) and Al(III), a 100-fold excess of AsO₃3-, Sb(III), Sn(II), and a 200-fold excess of Pb(II) and Hg(II). Under the conditions described Mn(II) gives a brown spot and Cd(II) and Zn(II) give a yellow spot. --B. Manole

ASSOCIATION (Institute): Bucharest Polytech Inst. Romania

Card 2/2

- 24 -

RUM/3-59-9-13/67

5(3)

AUTHOR:

Armeanu, V., Camboli, D.

TITLE:

The Behavior of \$ -Furoin-Oxime Toward Ions of Man-

ganese, Zinc, and Cadmium

PERIODICAL: Revista de chimie, 1959, Nr 9, pp 529-530 (Rumania)

ABSTRACT:

The article contains the results obtained by the authors in their research on the influence exercised by the modification of some substituents in the mole-cule of certain complex generating substances on the analytical properties of complex combinations. The authors used ions of Mn²⁺, Zn²⁺, Cd²⁺, utilizing an alcoholic solution 1% of beta-furoin-oxime. The oralcoholic solution 1% of complex combinations. der of addition of the reagents is important. The authors did their tests in micro-samples, on a porcelain plate, on microscope blades, and on filter paper, by drops. The working conditions were varied and the optimum conditions determined. The determination of the limit of sensitivity is described. The present note

Card 1/2

RUM/3-59-9-13/67

The Behavior of $oldsymbol{eta}$ -Furoin-Oxime Toward Ions of Manganese, Zinc and Cadmium

constitutes an appendix to the authors papers about the behavior of akyloin-oximes in the face of a series of ions. There is 1 graph, 1 table, and 7 references, 5 of which are Rumanian and 2 Soviet.

Card 2/2

ARMEANU, V.; AMBRUS, C.; CAMBOLI, D.

Behavior of β -furoin-oxime in presence of the Pt⁴⁺ and Pd²⁺ ions. Rev chimie Min petr 12 no.10:615-616 0 '61.

6-14

SPACU, P., prof.; CAMBOLI, D.

Application of sodium altroprusside in chemical analysis. Analele chimie 17 no. 1:135-145 Ja-Mr '62.

1. Membru al Comitetului de redactie, "Analele Romino-Sovietice, Chimie" (for Spacu).

LUPAN, M., ing.; NICULESCU, D.D., ing.; TANNENBAUM, M., ing.; CAMBUREANU, A., ing.; LOBEL, L., ing.; DUMITRESCU, D.V., ing.

Some aspects and results of technical and scientific cooperation between the Institute of Building Research and Construction Building Economics, and the Progresul Plant of Prefabricated Parts, Bucarest. Rev constr si Mat constr 15 no.9:493-497 S¹63.

CAMEKI

PHASE I BOOK EXPLOITATION

z/6284

0

Jerie, Jan, ed., Engineer, Doctor, Corresponding Member of the Czechoslovak Academy of Sciences

Základní problémy ve stavbě spalovacích turbin (Basic Problems in the Construction of Gas Turbines [collection of articles]). Prague, Nakl. CAV, 1962. 627 p. 1600 copies printed.

Sponsoring Agency: Československá akademie věd.

Ed. of Publishing House: Marie Moravcová; Tech. Ed.: František Končický.

PURPOSE: The book is intended to familiarize turbine designers with recent developments in the design of gas turbines and to present some research results which may be helpful in designing more efficient turbines.

COVERAGE: The book comprises articles by leading Czechoslovak turbine experts on thermodynamic cycles, flow research in turbine components,

burning of fuel in combustion chambers, axial compressors, and characteristics of turbines manufactured in Czechoslovakia.

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Basic Problems in the Construction (Cont.)	z /6284	1
J. Camek (State Research Institute for Heat Engineering, Prague). Theoretical Study on the Possibility of Obtaining Flatter Turbine Stage Characteristics $\eta u = f(u/c_{ad})$.	5 4 7	
I. Zuber (State Research Institute for Heat Engineering, Prague). Experimental and Theoretical Results in the Field of Combustion Chambers	571	
J. Balos (Klement Gottwald First Brno Armament Plant, Brno). A Combustion Chamber for the PBZKG 1-Mw Turbine [PBZKG is Czech abbreviation for Gottwald Plant]	589	
O. Schurek (Aviation Research and Testing Institute, Letnany) Burning of Fuel in Combustion Chambers of Jet Engines	603	
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EPA/EWP(w)/EWP(1)/EPF(n)-2/EPR/I-2/EPA(bb)-2

ACCESSION NR: AP5015840

CZ/0059/64/000/004/0023/0029

AUTHOR: Camek, J.

TITLE: Determining the working field of a double-shaft internal combustion turbine

SOURCE: Letnany. Vyzkumny a zkusebni letecky ustav. Zpravodaj VZLU, no. 4, 1964, 23-29

TOPIC TAGS: gas turbine, internal combustion turbine, twin shaft turbine, working field determination, pressure loss, heat conduction

ABSTRACT: After describing the air compressor, combustion chamber, and turbine operations of a double-shaft gas turbine widely used for traction purposes, two methods of determining its operating characteristics and working field are discussed. The graphic-computation method involves presenting the operations of each subassembly the compressor, combustion chamber, etc. - in non-dimensional graphs based on the loss of pressure at each step, shape and efficiency of blades, flow section of the generator turbine, etc. These are accompanied by theoretical computations relating air and gas compression and expansion to temperature, flow coefficients to intake and exhaust velocities, loss of pressure in the combustion chamber to velocity in the mixing nozzles, and loss of pressure before the generating turbine intake to its expansion Cord 1/2

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ACCESSION NR: AP5015840

ratio and loss of heat. These are all then combined in a diagram representing the working field of the whole gas turbins. This method is said to require a great deal of time and to be inaccurate at the highest and lowest expansion ratios. Attempts were therefore made to calculate states of equilibrium by digital computer, based on concrete compressor data, such as amount of air injected, degree of compression, and generator revolutions. The necessary formulas and computations are given, and it is concluded that this mathematical method is advantageous in providing several variant solutions, from which the optimal may be selected. Orig. art. has: 3 figures and 17 formulas.

ASSOCIATION: none

SUBMITTED: 00 .

ENCL: 00 SUB

SUB CODE! PR "

NO REF SOV: 001

OTHER: 003

2/2/2

CAMEK, Lubomir

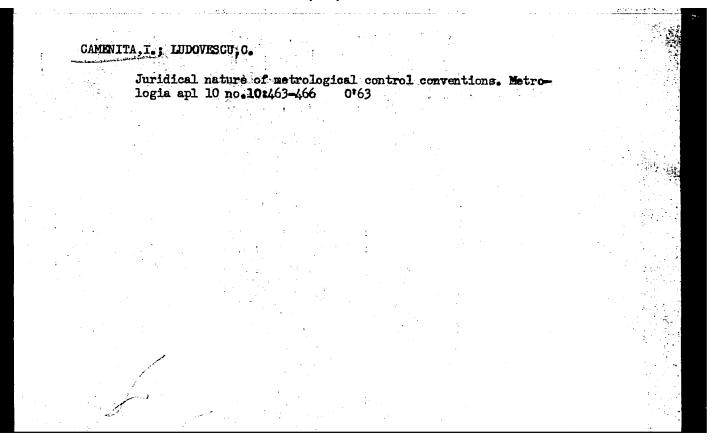
Transistorized automation elements. Sdel tech 12 no.2 \$45-47
F*64

CAMENITA, I.

Problem of offence and sanction plurality in use with the jurisdiction authority in the metrological field and the State Inspectorate for Boilers and Equipment for Hoisting. Metrologia apl 10 no.2:88-90 F '63.

TATAR, A.; CAMENITA, I.

Seizure and making beasuring devices profitable. Metrologia apl 10 no.81374-375 Ag 63.



CAMENITA, I.

Result of the intellectual creation as an object of juridical relation of copyright and patent right. Metrologia apl 12 no.3:127-135 Mr '65.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010006-3

SURNAME, Given Names

Country: Rumania

Academic Degrees:

Affiliation: -not given-

Source: Bucharest, Farmacia, Vol IX, No 9, Sep 1961, pp 553-561.

Data: "A Study of the Injectable Drugs Included in the 7th Edition of the Rumanian Pharmacopoeia."

Authors:

TORJESCU, V., -Farm. Dr.MDISIN, Eliza, -Pharmacist.CAMENITA, Maria, -Pharmacist.SAGHIN, Maria, -Pharmacist.NAUM, V., -Pharmacist.-

400 081647

CAMENSCHI, Galina

Convergent jets at critical speed. Comunicarile AR 12 no.5: 513-517 My '62.

1. Comunicare presentata de C. Iacob, membru corespondent al Academiei R.P.R.

CAMENSCHI, G.; SANDRU, N.

Action of a thermal source and a discontinuous thermal field in the interior of elastic semiplane with embedded boundaries. Studii cerc mat 15 no. 1:3-12 '64.

DRIMUS, I.; CAMIL, J.

"Radioactive substances and ionizing radiations, and their effect upon the organism."

p. 193 (Revista De Chimie) Vol. 7, no. 4, Apr. 1956 Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

CAMIL, J.

RUMANIA / Chemical Technology. Chemical Products and Their H-6

Application. Safety Engineering. Sanitary

Engineering.

Abs Jour : Ref Zhur - Khimiya, No 2, 1958, No 5167

Author : Camil J.

Inst : Not Given

Title : Some Specific Protective Measures in Work

with Radioactive Substances.

Orig Pub : Rev. chim., 1957, 8, No 1, 32-41

Abstract : Safety engineering measures in connection

with work involving radioactive isotopes are considered, and also the corresponding sanitary-hygienic and legislative provisions.

Card : 1/1

Camil, L.

some special protective measures at the work with radioactive substances.

p. 32 (NEVISTA DE CHIPME) (Bucuresti, Rumania) Vol. 7, No. 1, Jan. 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

CAMINISTEANU, Lucia, ing.

From the experience of Adesgo Hosiery Mills in Bucharest in producing knitted furs. Ind text Rum no. 3: 141-144 Mr 164.

ACC NR: AP6024794

AUTHOR: Caminschi Dimitrie (Engineer)

ORG: none

TITLE: Transistor time bases

SOURCE: Telecomunicatii, no. 7, 1965, 271-277

TOPIC TAGS: transistorized circuit, oscillograph, electric measuring instrument, delay circuit

ABSTRACT: The author describes a number of transistorized circuits for the generation of linearly variable voltages, and indicates their applications as time bases for oscillographs, pulse delay circuits, time measurement devices and other instruments. Orig. art. has: 21 figures and 25 formulas. [Based on author's Eng. abst.]

[JFRS]

SUB CODE: 09, 14 / SUEM DATE: none / ORIG REF: OO2 / SOV REF: OO1

OTH REF: OO3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000308010006-3"

Cord 1/1 /1/05

UDC: 621.373:621.382.3

TEODOROVICI, Gr., conf.; IVAN, A., dr.; OANA, C., dr. ZVORISTEATH, Virginia, dr.; HANDRACHE, Ludmila, dr.; VANCAA, Georgete, dr.; MANTA, I., dr.; CAMNER, M., dr.; URNA, Mireille, dr.; Boh TIN, Marie-Jeanne, dr.

Evolution of influenza among a group of school-age children in the year 1962-1963. Microbiologia (Bucur) 9 no.6:523-529 N-D '64

1. Lucrare efectuata la Institutul medico-farmaceutic, Iasi.

CAMO, E. (Edhem) Dr.

"On the breeding diseases and the protection of young domestic animals". Prof. of Zoohygiene at Vet. Fac., U. of Sarajivo

Vet. (Sara) 2: 576-579, 1953 Vet. 1: 10-16, 1954

CAHO, E.

Hygienic conditions of grazing grounds.

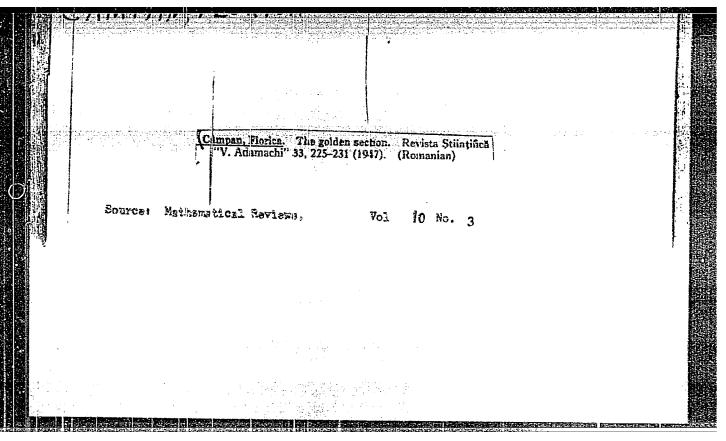
p. 333 (Poljoprivredni Progled. Vol. 4, no. 6, June 1956. Sarajevo, Yugoslavia)

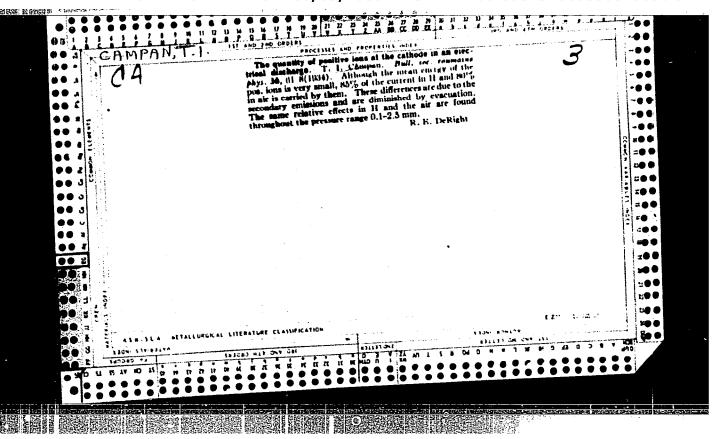
Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

CAMPA, Lojze, el.inz.; VAJDA, B. [translator]

Track circuits and electronic track relay. Elektr vest 29 no.8/10:a-11--a-14 '61.

1. Zavod za avtomatizacijo (Institution for Automatization), Sektor IV, Miklosiceva 28, Ljubljana (for Campa).





RUMANIA / Atomic and Molecular Physics. Heat.

D-4

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, No 9004

Abstract

the thermocouples of the second type gave higher readings (the difference reached 25% at a body temperature of 166°). When the temperature of a rotating rod was measured, the friction of the contacts caused the readings of the thermocouples to be too high. The authors consider this proof that the measurement of the surface temperature of metallic bodies is more accurate when performed by means of thermocouples with mechanical contacts.

Card

: 2/2

Campan, T.I.

RUMANIA / Atomic and Molecular Physics. Heat.

D-4

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, 9029

Author

: Campan, T.I., Anghelache, D., Belous, Vitalie

Title

: Concerning the Determination of the Heat Conduction of

Materials.

Orig Pub

: Bul. Inst. politehn. Iasi, 1956, 2, No 1-2, 321-330.

Abstract

: In connection with production requirements, measurements were made of the heat conductivity of many commercial materials (raw and half-finished). A method is used, which is a version of the classical method of Greber and Jakob et al. (see Mekheyev, M.A., "Osnovy teploperedachi" (Principles of Heat Transfer) M-L, Energoizdat, 1949, pages 308-313). The determination of the heat conductivity is carried out by measuring the difference of temperatures, due to the flow of heat between plane-parallel surfaces of the investigated specimen in the form of a cylindrical disk or

Card

: 1/3

RUMANIA / Atomic and Molecular Physics. Heat.

D-4

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, 9029

Abstract

: (in the case when the material cannot be machined) of plates with square cross sections. The heat is obtained from an electric heater. The source of heat is over the specimen, which in turn is mounted on a metallic base with water cooling. The heat losses in the radial direction are eliminated by means of protective rings. The protective ring of the specimen is made of the same material as the specimen itself; it is heated at the source of heat by electric current. The heat losses upwards are eliminated by another source of heat and by a correspondingly heated ring. Sixteen electric thermocouples are used to measure the temperatures, needed to observe the homogeneity of the thermal field, and also to determine the temperature drop in the body of the specimen. The authors establish the precision of the method, calculate the maximum error in connection with the sensitivity of the measuring instrument. They also determine the corrections, connected with the temperature

Card

: 2/3

RUMANIA / Atomic and Molecular Physics. Heat.

D-4

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, 9029

Abstract

: drop in the metallic supports of the thermocouples, with the flow of heat between the source of the heat, the specimen, and the protective ring, when unavoidable temperature differences appear between them, with the losses of heat in the conductors of the sources and of the thermocouples, and finally, with the energy losses in the elec-

tric measuring instruments.

Card : 3/3

MAMPAN TESDOR

RUMANIA/Atomic and Molecular Physics - Heat

D-4

Abs Jour : Ber Zhur - Fizika, No 5, 1958, No 10436

Author

: Cempan Tesdor, Simionescu Aurelian

Inst

: Not Given

Title

: Method of Determining the Heat Conduction of Materials in

Non-Stationary Modes.

Orig Pub : Bul. Inst. politehn. Issi, 1956, 2, No 3-4, 283-291

Abstract: The temperature of a half-bounded body with a surface having a constant temperature different from the initial uniform temperature of this body is expressed as a function of the difference between the surface and the internal temperature and the Fourier criterion (the function of heat conduction and time T , during which the temperature of the surface reaches the depth x and x^2). The experimental instrument was constructed in such a way, that in that region of the investigated body where the temperature is being measured, the temperature distribution is the same as in the half-bounded body. If the specific gravity and the specific heat capacity

Card : 1/2

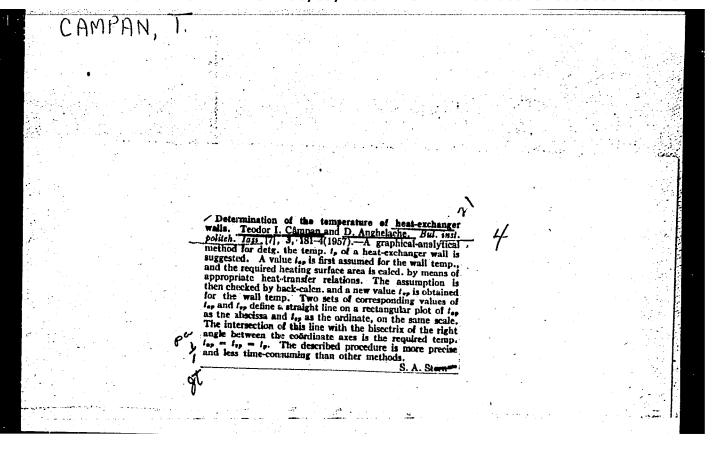
RUMANIA/Atomic and Molecular Physics - Heat

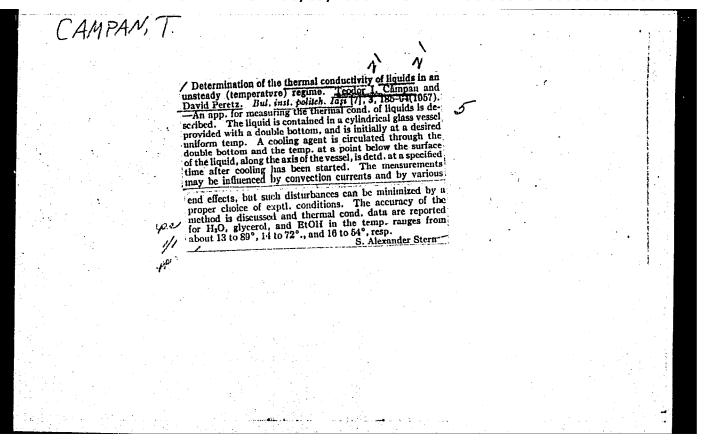
D-4

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 10436

of the investigated material are known, then the heat conduction can be determined only by measuring its \mathcal{T} , the thickness, and the temperatures on the surface and at depth x. The method given has many advantages both with respect to the shape of the specimens as well as with respect to reduction in the determination time. The results obtained by this method have been compared with the values of heat conduction obtained by the method of stationary temperature fields in the same materials, and satisfactory agreement was found.

Card : 2/2





Н COUNTRY : RUMANIA : Chemical Technology. Chemical Products and CATEGORY Their Applications. Instruments and Automation ABS. JOUR. : RZKhim., No. 23 1959, No. 82568 : Camban, T.; Anghelache, D. AUTHOR INST. : Thermocouples for Measurment of Surface TITLE Temperatures ORIG. PUB. : Bul. Inst. politehn. Issi, 1958, 4, No 12, 365-370 : The described thermocouple has a silver ABSTRACT plate between the electrodes of a 0.15 mm thickness, mounted on cork that acts as thermal insulation. The time required to record a measurment is 20 seconds. -- Z. Khaimskiy 1/1 CARD: H - 9

CAMPRELL, F; CRAIG, G; CISLER, W.

Optimum investment in electric power for economically under-developed countries, p. 561.

TEHNIKA (Savez inzenjera i tehicara Jugoslavije) Eeograd, Yugoslavia. Vol. 11:, no. 1, Apr. 1959

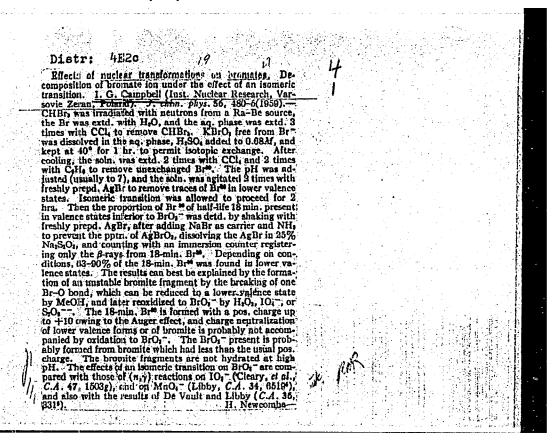
Monthly List of East European Accession EEAI LC, Vol. 8, no. 6, June 1959 Uncla.

CAMBELL, I. G.

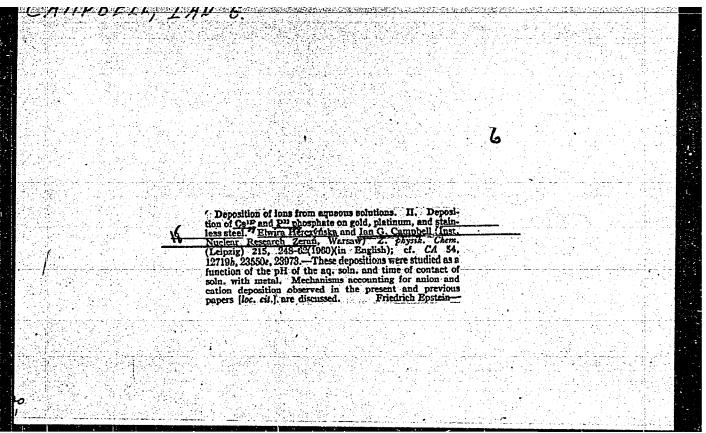
I. G. Campbell: "On certain reaction mechaisms of hot atoms. II," Nuleonika, III, 1:43-52 (1958).

Published from the Inst. for Nuclear Research of the PAN, Warsaw. Received 1.6 Sep 57.

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CAMPBELL,	I.G.	
	Effects of nuclear transformations on bypmates. II	4
	Effects of nuclear transformations on bromates. II Comparison of the effects of neutron capture and isomeric transition. I. G. Campbell (Nuclear Research Inst. Warsaw). J. chim. phys. 56, 665-70(1950).—A comparison is made in solus. of bromates and cryst. bromates of the effects of the reaction $Br^{10}(n,\gamma)Br^{40}$ and the isomeric transition $Br^{40n} \rightarrow Br^{40}$. In both cases, an unstable fragment is formed, probably a bromite, which is reducible by MeOH in some cases.	
	complete disintegration of the bromate than the isomeric transition; this causes in all cases the rupture of at least one Br-O bond. The recombination of the fragments in the cryst. bromates is compared for the 2 kinds of transformations. Bernard Rubins	
Zemonya, bolk	Card 1/1 aht	In 2



PAVEL, I.; CHISIU, N.; CAMPEANU, S.

Experimental pellagra in swine. A study on dysproteinemia in pellagra syndrome. Cesk. gastroent. vyz. 15 no.1:3-17 F '61.

1. Ustav vyzivy, AV Bukuresti, Rumunska lidova republika.
(PELLAGRA experimental) (BLOOD PROTEINS chemistry)

KYMPYANU, V. [Campeanu, V.]

Some problems in the development of labor legislation in the Rumanian People's Republic. Sots.trud 7 no.7:36-42 Jl 162.

(MIRA 15:8)

1. Dekan yuridicheskogo fakul'teta Kluzhskogo universiteta
Rumynskoy Narodnoy Respubliki.

(Rumania—Labor laws and legislation)

CAMPRAG, D.

Experiments on the research of the noxiousness of Peronospora schachtii Fuckel on the sugar beet. p. 71.

GEODETSKI LIST. (Drustvo geodeta Hrvatske) Zagreb, Yugoslavia Vol. 13, no. 7/9, July/sept. 1959

Monthly list of Eastern European Accession Index (EEAI) LC vol. 8, No.11 November 1959 Uncl.

CAMPRAG, Dusan, inz.

Some observations on the appearance and noxiousness of Maladera holosericea Scop. (family Scarabaeidae, Coleoptera), with special emphasis on sugar beets. Zbor prir Mat srp no.21:122-131 *61.

1. Poljoprivredni fakultet, Novi Sad.

CAMPRAG, Dusan, dr.

Pests and diseases of industrial sugar beets, with special emphasis on the fight against them. Kem ind 11 no.12:754-764 D '62.

1. Poljoprivredni fakultet, Novi Saf.

CAMPRAG, Dusan, dr

Pests and diseases of sugar beets with a special emphasis on their prevention. Pt. 2. Kem ind 12 no.5:376-385 My '63.

1. Peljeprivredni fakultet, Nevi Sad.